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(54) CARBON PAPER FOR FUEL CELL ELECTRODE AND MANUFACTURE THEREOF

(57)Abstract:

PURPOSE: To display cell performance in a thin type further with excellence for use in an electrode plate for a fuel cell by setting thickness, porosity, mean hole diameter, opening gas hole capacity and specific resistance of carbon paper to within a specific value range.

CONSTITUTION: Carbon paper, constituted of carbon fiber and carbon, has a characteristic of 0.05 to 1.0mm thickness, 70 to 90% porosity, 10 to 30 μ m mean hole diameter, 2.0 to 4.0cc/g opening gas hole capacity and 0.1 Ω cm or less specific resistance. As a method of manufacturing this carbon paper, after cellulose system paper of 0.1 to 0.5 bulk specific gravity, 0.15 to 2.0mm thickness and 15 to 40 μ m means hole diameter is primarily burned at about 1000°C by a 10°C/ time or less temperature rising speed, the paper is secondary burned at 1800°C or more. In this paper, as an electrode plate, excellent cell performance having a high holding amount of electrolyte with necessary strength is displayed, and also capable of corresponding to miniaturizing a cell with a thin type.

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